APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIASEK, M.

Tight binding method for white tin. Bul Ac Pol mat 8 no.2:89-93 '60.
(EEAI 9:12)

1. Institute of Physics, Polish Academy of Sciences. Presented by L.Infeld.

(Tin) (Crystal lattices)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

POLAND/Solid State Physics - Solid State Theory. E
Crystallography.

Abs Jour : Ref Zhur Fizika, No 11, 1959, 24871

Author : Miasek, Maria
Inst : Warsaw University, Poland

Title : The Application of the Tight Binding Method to the Investigation of Energy Bands in Hexagonal Close-Packed Structure.

Orig Pub : Acta phys. polon., 1958, 17, No 6, 371-387

Abstract : The author calculates the integrals encountered in the expression for the energy of the single-electron spectrum of hexagonal close-packed structure in the tight-binding approximation, as derived in the preceding paper by the author (Referat Zhur Fizika, 1958, No 12, 27419). Account is taken of paired interaction not only between the nearest neighbors, but also the next to nearest neighbors up to the fourth order. -- K.P. Gurov

Card 1/1



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

LIBRARY

ACTA PHYSICA POLONICA
Vol. XXI, fasc. 6, 1962

# THE APPLICATION OF THE TIGHT-BINDING METHOD TO THE INVESTIGATIONS OF ENERGY BANDS IN HEXAGONAL CLOSE-PACKED STRUCTURE. II

by Marek Mihalik

Institute of Theoretical Physics University of Wrocław, Poland

(Received March 3, 1961)

In this work the energy bands in the eighth and ninth zones of energy for hcp structure of zinc, which contain 3-d-bands for the neighbour atoms from the lattice of the same

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

Miasek, M.

COUNTRY : Poland
CATEGORY : B-5

ABS. JOUR. : RZKhim., No. 14 1959, No. 48611

AUTHOR : Miasek, M
INST. : Not given
TITLE : The Application of the Tight-Binding Method to the Investigation of Energy Bands in Hexagonal Close-Packed Structures. II.

ORIG. PUB. : Acta Phys Polon, 16, No 6, 447-469 (1957)

ABSTRACT : The author presents a table of explicit expressions for the matrix elements of the energy of hcp crystal lattices; the expressions contain E-integrals for adjacent atoms from the second to the fourth atom; the results for the nearest neighbor atoms have been presented in an earlier paper. For Communication I see KZhKhim, No 13, 1959, 44916.

V. Urbakh

CARD: 1/1

B-19

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

B-

44016

Country : Poland
Category : Physical Chemistry - Crystals.

Abs. Jour : RZhKhim., No 13, 1959

Author : Mlynek, W.
Institut. : Not given
Title : The Application of the Tight Binding Method to the Investigation of Energy Bands in Covalent Close-Packed Structures. I.

Orig Pub. : Acta Phys Polon, 17, No 3, 243-263 (1958)

Abstract : The author discusses the application of the tight binding method (TBM) to the calculation of energy levels in FCC crystals of the type of alpha-Co, using atomic s, p, and d-orbitals. In such a calculation involves nine wave functions of different symmetry and the unit cell contains two non-equivalent atoms. 18 basic Bloch functions exist for each value of the wave vector. Thus the calculation of single-electron levels in the crystal requires the evaluation of an 18th-order matrix (having 324 elements) and its subsequent diagonalization. The article discusses in detail the simplification of the above-indicated matrix by the use of symmetry elements and contains a tabulation

Card: 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

Misiek, M. The calculation of the matrix components of energy for hexagonal close-packed structure. Bull. Acad. Polon. Sci. Cl. III. 4 (1956), 805–810 (1957).

The tight binding method is applied to the hexagonal close-packed structure. The matrix components of energy between Bloch functions are expressed in terms of the general energy integrals (E-integrals). These expressions are simplified considerably by using the two centre approximation. This approximation reduces the number of different integrals from 72 to 7. *A. C. Hurley.*

RB 1/1

2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIASEK, M.

"The Polish-Czechoslovak Conference on Physics of Solid Bodies; Sopot, November 5-9, 1956."

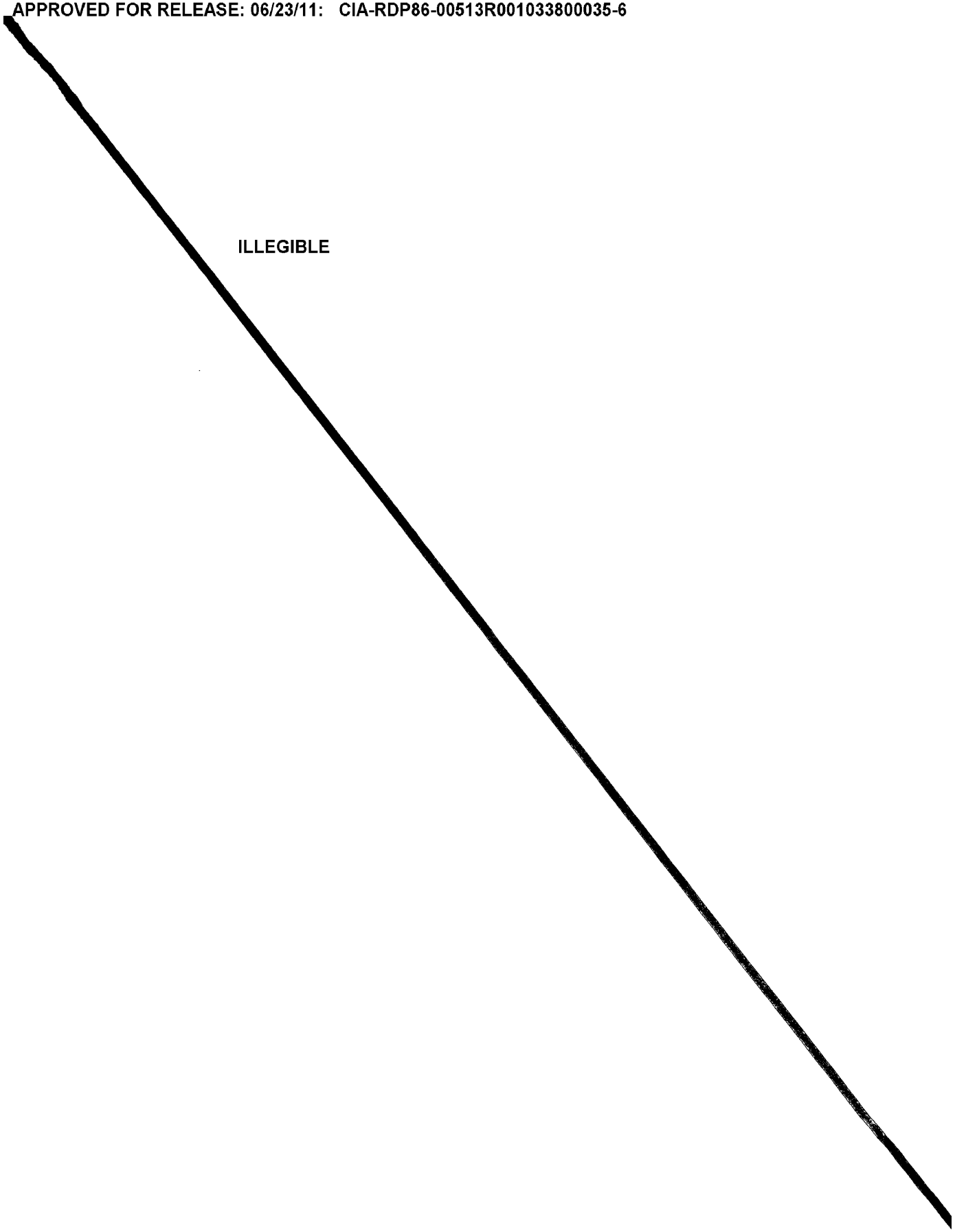
p. 163 (Kosmos. Serbia B: Przyroda Nieozywiona) Vol. 3, no. 2, 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

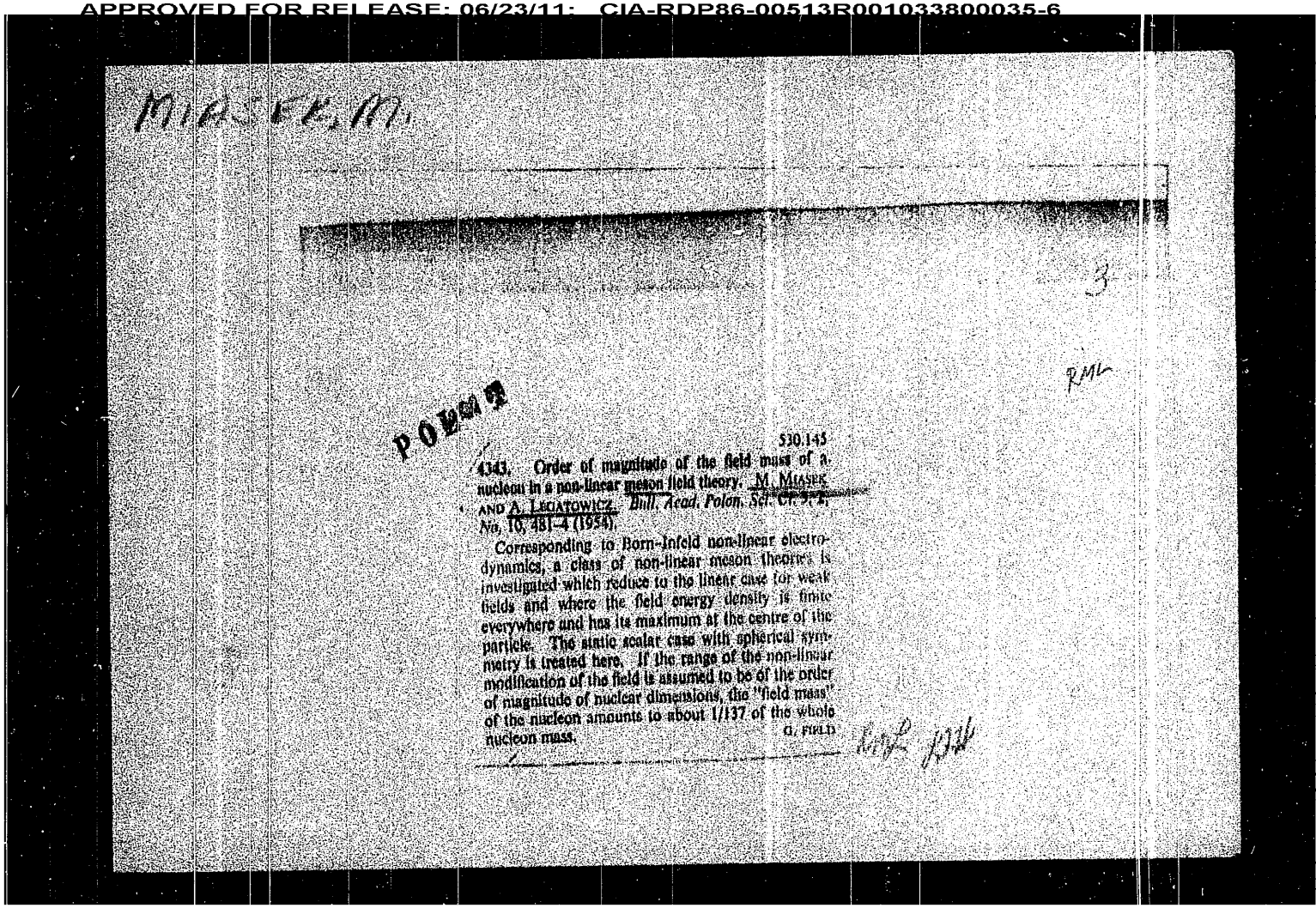
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

ILLEGIBLE



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



MIRSKI, M.

3

RML

POLAND

530.145

4343. Order of magnitude of the field mass of a nucleon in a non-linear meson field theory. M. Mirski and A. Legatowicz. *Bull. Acad. Polon. Sci. Cl. 3 2*, No. 10, 481–4 (1954).

Corresponding to Born-Infeld non-linear electrodynamics, a class of non-linear meson theories is investigated which reduce to the linear case for weak fields and where the field energy density is finite everywhere and has its maximum at the centre of the particle. The static scalar case with spherical symmetry is treated here. If the range of the non-linear modification of the field is assumed to be of the order of magnitude of nuclear dimensions, the "field mass" of the nucleon amounts to about 1/137 of the whole nucleon mass.

G. Field

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MYAZ', N.I. [Miaz', N.I.]; GABINET, M.P. [Habinet, M.P.]

Clay minerals in crystal-bearing veins of central Kazakhstan.
Visnyk L'viv.un. Ser.geol. no.1:155-157 '62. (MIRA 16:7)
(Kazakhstan--Clay)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

HAGEL (Poland); MIARKO (Poland)

Magneto-elastic stress measurement apparatus. Hut listy 17 no.2: 98-100 F '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

POLAND

MIANOWSKI, Zdzislaw

Central Laboratory of the Gas Industry (Centralne Laboratorium Gazownictwa), Warsaw

Warszawa, Przeglad geologiczny, No 7, July 1966, pages 296-300

"Project of geological and hydro-gasodynamic classification of reservoirs for underground storage of gases and a short description of the characteristics of distinguished reservoirs."

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKI, Zdzislaw; BUCZYŃSKI, Mieczyslaw

Wells with reversed gravel filters. Przegl geolog 10 no.2:101-103 F '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKI, K.

2
17 M

POL.

3198

624.042.3 : 621.778.1 : 624.041.62

Mianowski K. The Problem of Static Work of the Straining Bed for Production of Chord-Concrete Elements.

„Zagadnienie pracy statycznej toru naciągowego do produkcji elementów strunobetonowych". Inżynieria i Budownictwo. No. 6, 1953, pp. 196–197, 5 figs., 1 tab.

According to modern technology in the production of chord-concrete elements, the straining bed should be of a trough-like section. On the assumption that the straining force and the moment following from the eccentric application of the straining force relative to the centre of the bed section are carried by the straining trough, a formula has been elaborated for the bending moment at a random cross-section of the straining bed.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKI, A.

Technical gains in the Soviet hydraulic engineering. p.431
GOSPODARKA WODNA (Naczelna Organizacja Techniczna) Warszawa.
Vol. 14, no. 11, Nov. 1954

So. East European Accessions List Vol. 5, No. 9 September 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKI, A.

"Problem of Organization of Big Water Works." p. 170, (GOSPODARKA WODNA, Vol. 14, No. 5, May 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKI, A.

"Documentation on Complex Hydraulic Investments." p. 441, (GOSPODARKA WODNA, Vol. 13, No. 12, Dec. 1953. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKA, Zofia

A thermostable soluble antigen from beef erythrocytes in the serodiagnosis of infectious mononucleosis. Med. dosw. mikrobiol. 16 no.3:233-238 '64.

1. Z Zakladu Bakteriologii Panstwowego Zakladu Higieny w Warszawie (Kierownik: prof. dr W. Wojciechowski).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKA, Zofia, asystenci techniczni; Jozef A Makarowska, Maria Jankiewicz

Serodiagnosis of infectious mononucleosis. Med. dosw. mikrob. 11 no. 1: 43-50 1959.

1. Z Panstwowego Zakladu Higieny w Warszawie.
(INFECTIOUS MONONUCLEOSIS, diag.
serol. (Pol))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKA, Zofia; JEZIORANSKIA, Alicja (Warszawa)

Comparative studies on Weinberg's and H. J. Bensted's and J. D. Atkinson's methods. Wiadomosci parazyt., Warsz. 2 no. 5 Suppl:121-122. 1956.

1. Zaklad Bakteriologii PZH i Zaklad Parazytologii Lek. PZH.
(ECHINOCOCCOSIS, diagnosis,
complement fixation, comparison of Weinberg's & Bensted-Atkinson's methods (Pol))
(COMPLEMENT,
fixation in echinococcosis, comparison of Weinberg's & Bensted-Atkinson's methods (Pol))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MEISEL, H.; MIANOWSKA, Z.

Comparative investigations on Wassermann's and Sachs-Witebski's reaction (cytocholic). Polski tygod.lek. 5 no.51-52:1768-1773. 27 Dec 50.
(CLML 20:6)

1. Of the National Institute of Hygiene.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIANOWSKA, Z.

Investigations of the specificity of quantitative properties of serologic reactions. Med.dosw.mikrob. 2 no.2:169-170 1950.
(CLML 20:6)

1. Summary of report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. (Warsaw.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

BURACZEWSKA, M.; KWIEK, S.; MIANOWSKA, W.

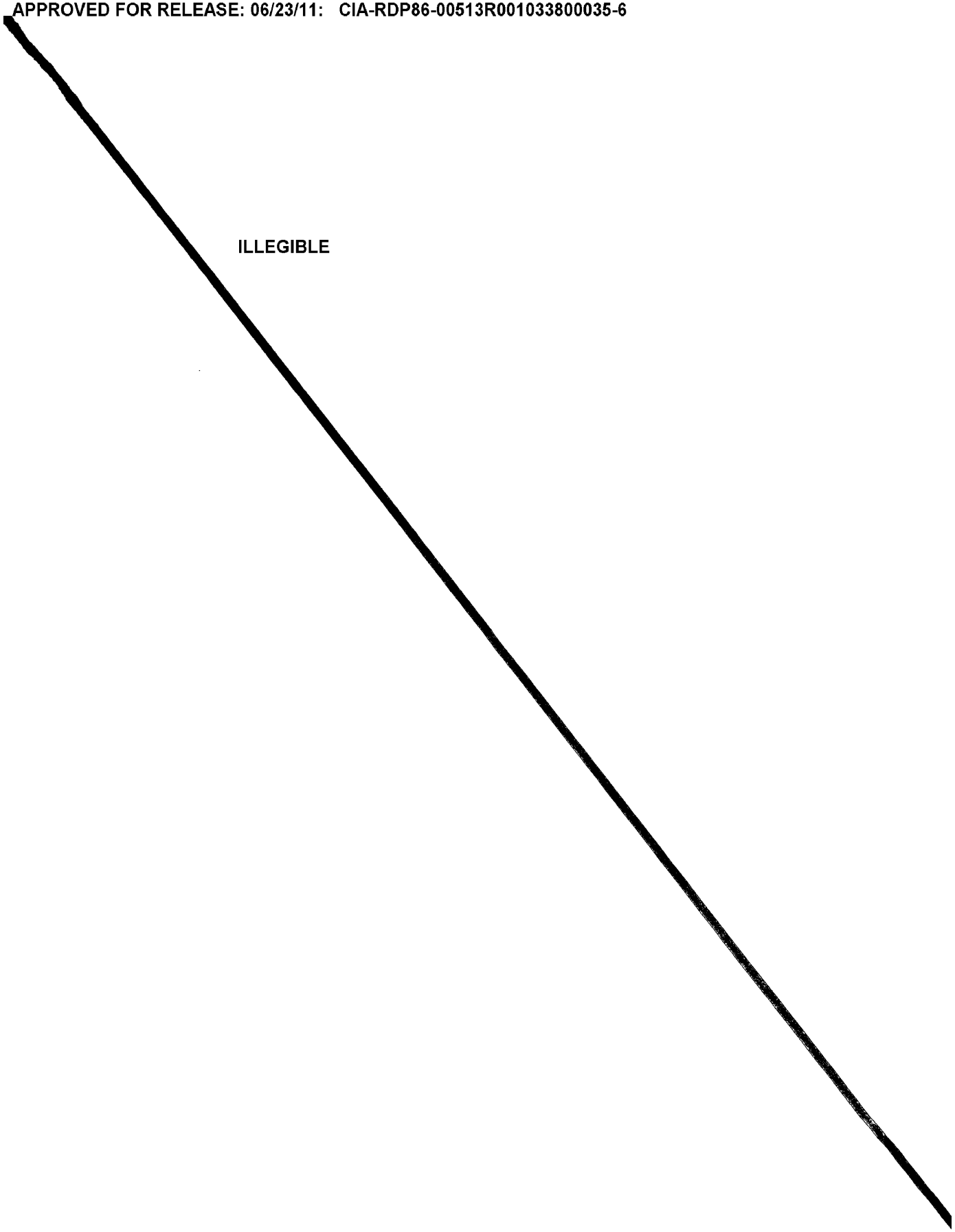
Comparison of microculture with macroculture in determination of Mycobacterium tuberculosis sensitivity to streptomycin. Polski tygod. lek. 7 no. 46:1527-1528 17 Nov 1952. (CIML 24:1)

1. Of the Department of Bacteriology of the Institute of Tuberculosis (Director--Prof. Janina Misiewicz, M.D.) in Warsaw.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

ILLEGIBLE



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAKININ, F.

Workers of silicate building materials plants exchange their experience. Stroi. mat. 3 no.5:9 My '57. (MLRA 10:6)

1. Sekretar' parторganizatsii Stalingradskogo kombinata silikatnykh stroitel'nykh materialov.
(Brick industry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAKININ, E.I.

*RT-820 /Threshold of the secondary electron emission of nickel and molybdemum/
Porog vtorichnoi elektronnoi emissii nikelia i molibdena.
Doklady Akademii Nauk SSSR, 91(5): 1075-1078, 1953.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAKAR, F.

Errors and variations in electric measuring instruments. p. 377.

ELEKTROTEHNISKI VESTNIK. ELECTROTECHNICAL REVIEW. Ljubljana, Yugoslavia.
Vol. 26, no. 11/12, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959.

Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAGKOV, N.; LEPIN', L.[Liepina, L.]

Protective effect and ohmic resistance of coatings. Vestis Latv ak no.6: 77-84 '61.

1. Akademiya nauk Latviyskoy SSR, Institut khimii.

(Protective coatings)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

EXCERPTA MEDICA Sec 6 Vol 13/3 Internal Med. Mar 59

1362. MECHANISM OF DYSENTERY INTOXICATION. IV. EXPERIMENTAL THERAPY OF DYSENTERY INTOXICATION (Russian text) - Miagkaya L. P. Pavlov Inst. of Physiol., USSR Acad.of Scis, Leningrad - BJULL. EKSP. BIOL. MED. 1958, 45/2 (54-58) Graphs 3

The antibacterial preparations used in the treatment of dysentery cannot be considered effective, as in 22-25% of cases the disease becomes chronic. In this connection, the effects of drugs in experimental dysentery in cats were examined. The results indicate that the sulphonamides have no antitoxic effect in Shiga infections, but even aggravate the condition. Neither did injection of procaine improve the condition. Satisfactory results were, however, achieved with $MgSO_4$.

Anigstein - Galveston, Tex. (L, 6)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIADOKOVA, M. ; MILICKA, L.

"Study of overvoltage during the separation of positively charged metals on negatively charged metals." p. 463

BIOLOGICKE PRACE. Bratislava, Czechoslovakia, Vol. 2, no. 10/11, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MLADOKOVA, M.

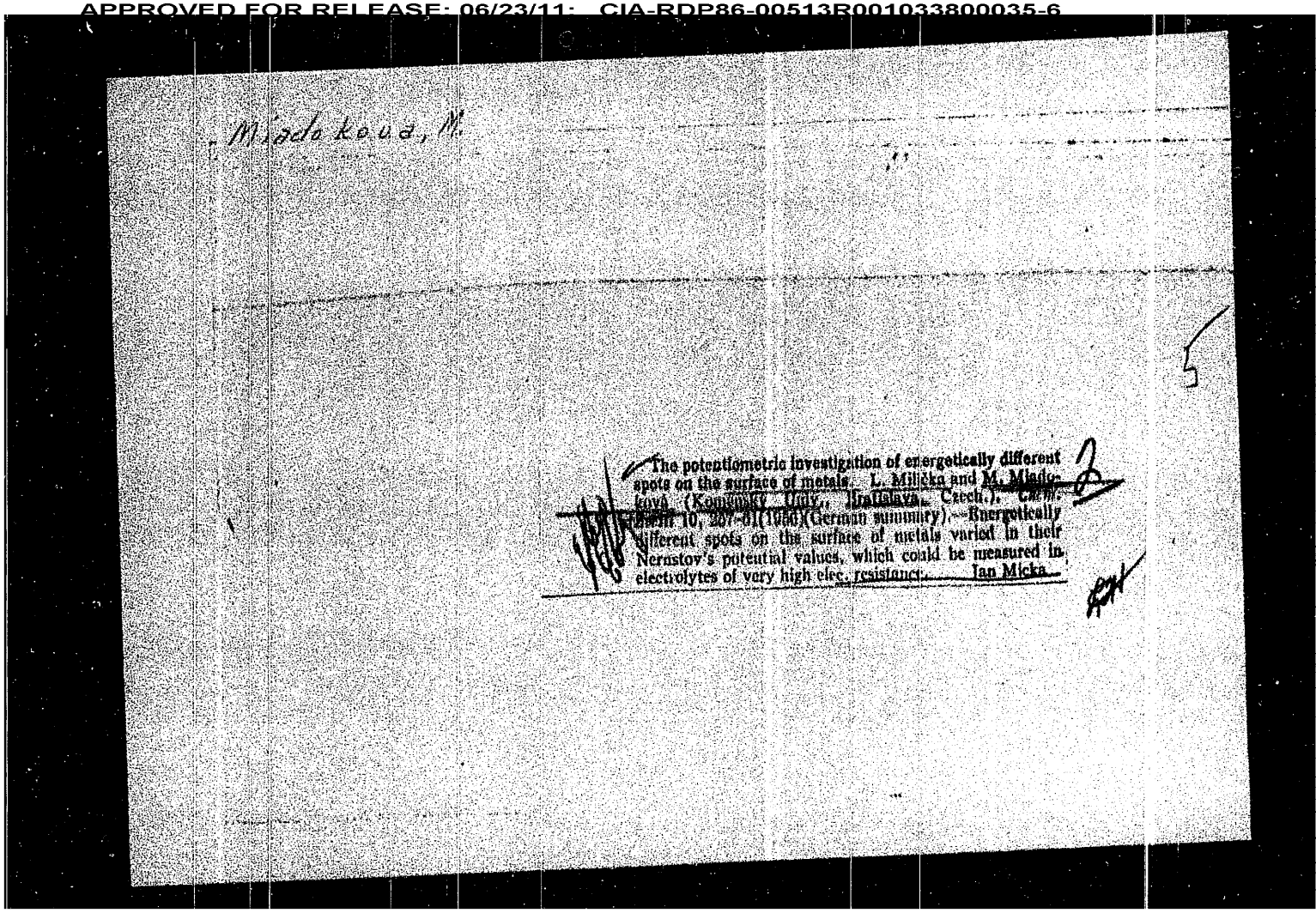
"Potentiometric adsorption research. I. Adsorption of molecules on zinc." p. 395.

BIOLOGICKE PRACE. Bratislava, Czechoslovakia, Vol. 2, no. 10/11, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



Micka kova, M.

The potentiometric investigation of energetically different spots on the surface of metals. L. Milička and M. Miadokova (Komenský Univ., Bratislava, Czech.). Chem. Zvesti 10, 287–91(1956)(German summary).—Energetically different spots on the surface of metals varied in their Nernstov's potential values, which could be measured in electrolytes of very high elec. resistance. Jan Micka

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

[illegible], V.

[illegible], V. Book No. 9 [illegible] Pula, p. 326.

Vol. 4, No. 12, Dec. 1956.
[illegible]
[illegible]
Zagreb, Yugoslavia

Se: East European Accessions, Vol. 6, No. 9, February 1957

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

RUDZINSKI, Edward, mgr., inz.; MIACZYNSKI, Tadeusz, mgr., lekarz weterynarii

Midget carp from Pisarzowice. Acta hydrobiol 3 no.2/3:175-198 '61.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Krakow, ul. Slawkowska 17 (for Rudzinski) 2. Pracownia Chorob Ryb, Instytut Weterynarii, Krakow, Plac Wolnosci 8 (for Miaczynski)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIACZYNSKI, Tadeusz, mgr., lekarz weterynarii; RUDZINSKI, Edward, mgr., inz.

Growth of carp kept for a while in aquariums. Acta hydrobiol 3 no.2/3: 165-174 '61.

1. Pracownia Chorob Ryb, Instytut Weterynarii, Krakow, Plac Wolnosci 8 (for Miaczynski) 2. Zaklad Biologii Wod, Polska Akademia Nauk, Krakow, ul. Slawkowska 17 (for Rudzinski)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIACZYNSKI, T.

"Sanguinicola, a Parasite of Fish Blood." p. 26, (GOSPODARKA RYBNA, Vol. 5, no. 2, Feb. 1953, Warsaw, Poland).

SO: Monthly List of East European Accession, Lib of Congress, Vol 2, no 10 Oct. 1953, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIACZYNSKI, Andrzej (Warsaw)

Mathematical methods of planning the construction of a building.
Przegl budowl i bud mieszk 37 no.2:67-74 F '65.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

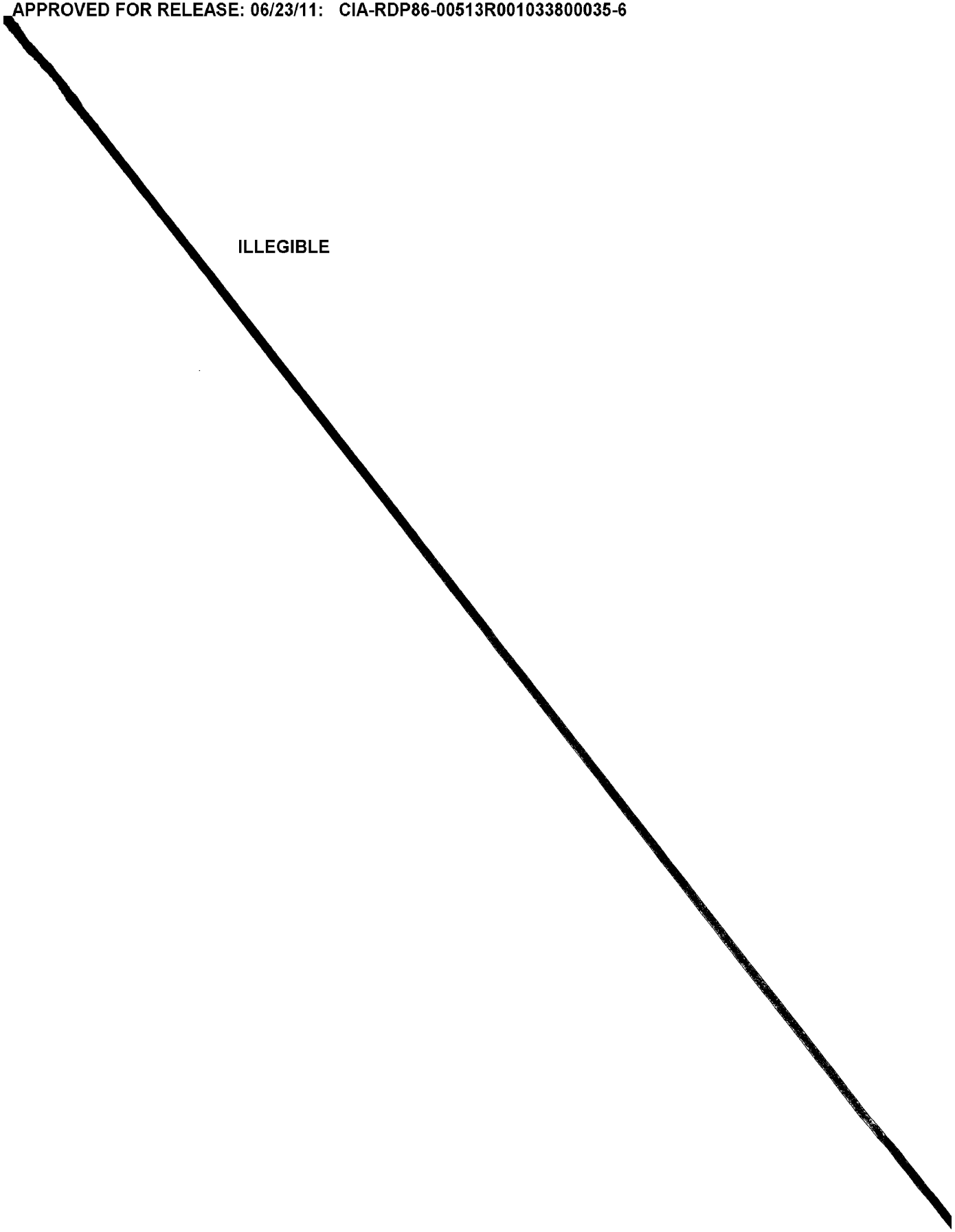
MIACZYNSKI, Andrzej, mgr. inz.

Atmospheric influences in the planning of constructions. Przegl budowl i bud mieszk 34 no.7:432-436 Jl '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

ILLEGIBLE



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAC, Ryszard

Review of magnetron cathodes. Przegl elektroniki 5 no.2: 68-73,74 F'64

1. Instytut Badan Jadrowych, Zaklad Elektroniki Ogolnej, Warszawa.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAC, Ryszard

Influence of the glow discharge process on the parameters of hydrogen corona stabilizer tubes. Przegl elektroniki 4 no.8:434-437 Ag '63.

1. Zaklad Elektroniki Ogolnej, Instytut Badan Jadrowych, Warszawa.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAC, Ryszard

POLAND

MIAC, Ryszard

Department of General Electronics, Institute of Nuclear Research (Zaklad Elektroniki Ogolnej IBJ [Instytutu Badan Jadrowych])

Warsaw, Przeglad elektroniki, No 8, August 63, pp 431-37.

"Influence of Glow Discharge Process on Parameters of Hydrogen Corona Stabilizer Tubes".

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MIAC, M.

Influence of the accomplishment of an assortment in smoked-meat production on the formation of the production costs. p. 14.

GOSPODARKA MIESNA, Vol. 7, No. 11 Nov. 1955

(Polskie Wydawnictwa Gospodarcze) Warszawa

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1 Jan. 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGER'YAN, M.

Convenient to customers and to cooks. Obshchestv.pit. no.1:39 Ja '60. (MIRA 13:5)

1. Starshiy inzhener otdela obshchestvennogo pitaniya i khlebopecheniya Glavursa Ministerstva putey soobshcheniya.
(Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE-BEZHANISHVILI, G.D., Cand Med Sci -- (diss)

"Data on the ~~contraction~~ morbidity of venereal diseases in Georgia and [redacted] organization of the ~~fight against~~ control of them. (1940-1954)."

Tbilisi, 1955, 27 pp. (Sci Res Skin Venerological Inst of Min of Health of Georgian SSR) 200 copies (KL, 39-56, 112)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, V.F.

Investigating natural noises in Seignette's salt crystals. Trudy LKI no.29:241-243 '59. (MIRA 14:7)

1. Leningradskiy korablestroitel'nyy institut, kafedra fiziki.
(Piezoelectric substances) (Potassium sodium tartrate)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, V. F., NESTERUK, V. F. (LKI, Leningrad)

"Some Methods of Detecting and Measuring Weak Signals."

report presented at the All-Union Conference on Statistical Radio Physics, Gor'kiy, 13-18 October 1958. (Izv. vyssh uchev zavdd-Radiotekh., vol. 2, No. 1, pp 121-127) COMPLETE card under SIFOROV, V. I.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

KEKELIDZE, M.A.; ODILAVADZE, G.N.; MGELADZE, V.D.; DZHINCHARADZE, T.I.; GELASHVILI, K.D.

Use of pyrite cinder from the Ingur Paper Combine in the production of basic iron. Trudy Inst.met. AN Gruz. SSR 12:3-17 '62. (MIRA 15:12)

(Ingur Valley—Paper industry—By-products)
(Cast iron—Metallurgy)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

KEKELIDZE, M.A.; MGELADZE, V.D.

Preparing silicomanganese from washed, fourth grade "Mtsvari" and oxidized Chiatura manganese ores. Trudy Inst. met. AN Gruz. SSR vol. 13:33-44 '62. (MIRA 17:9)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

KEKELIDZE, M.A.; PENOVA, V.V.; ODILAVADZE, G.N.; DZHINCHARADZE, T.I.; GELASHVILI, K.D.; MGELADZE, V.D.

Industrial sintering of washed fourth grade Chiatura manganese ore. Trudy Inst. met. AN Gruz. SSR vol. 13:3-5 '62. (MIRA 17:9)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, T.G.; NARSIYA, A.G.

Clinical X-ray picture in lithopone pneumoconiosis. Vest. rent. i rad. 36 no.5:60-61 S-O '61. (MIRA 15:1)

1. Iz Instituta gigiyeny truda i profzabolevaniy Ministerstva zdravookhraneniya Gruzinskoy SSR (dir. prof. G.Z.Pitskhelauri).
(LUNGS--DUST DISEASES) (RADIOGRAPHY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MACHABELI, M.E.; GDZELIDZE, E.G.; MGELADZE, T.G. (Tbilisi)

Clinical aspects and working capacity in manganokoniosis. Gig. truda i prof. zab. 4 no.4:48-50 Ap '60. (MIRA 15:4)

1. Institut gigiyeny truda i professional'nykh zabolevaniy Ministerstva zdravookhraneniya Gruzinskoy SSR.
(LUNGS--DUST DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, T.G.; NARSIYA, A.G. (Tbilisi)

Clinical and experimental study of the effect of lithopone dust on the lungs. Gig. truda i prof. zab. 4 no.3:51-53 Mr '60. (MIRA 15:4)

1. Institut gigiyeny truda i professional'nykh zabolevaniy Ministerstva zdravookhraneniya Gruzinskoy SSR.
(LITHOPONES--PHYSIOLOGICAL EFFECT) (LUNGS--DUST DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N.V.

Treatment of [illegible] by the [illegible] method.
Vop.kurs., filatelii i bezh. kul't. 30 no.5:[illegible]
'65. (MIRA 18:11)

1. Abkhazskiy filial Instituta kurortologii i fizioterapii
Gruzinskoy SSR (dir. -- prof. A.L.Gerasimova), Sukhumi.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N.V.; METONIDZE, Sh.Sh.; DATESHIDZE, D.G.

Effectiveness of atherosclerosis treatment in the humid climate of subtropical Abkhazia. Trudy Inst. klin. i eksper. kard. AN Gruz. SSR 8:119-123 '63. (MIRA 17:7)

1. Abkhazskiy filial Instituta kurortologii Gruz.SSR, Sukhumi.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

GRIGOLIYA, A.L.; MGELADZE, N.V.; DZIDZAVA, T.K. (Sukhumi)

Changes in the secretary and excretory functions of the stomach in gastritis using various mineral waters of Abkhazia. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.6:491-495 N-D '61. (MIRA 15:1)
(ABKHAZIA--MINERAL WATERS--PHYSIOLOGICAL EFFECT)
(STOMACH--INFLAMMATION)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N.V., kand.med.nauk; DZHAGASHVILI, O.A.

Stomach function in a patient with idiopathic dilatation of the esophagus. Sbor. trud. Med. nauch. ob-vo Abkh. 2:272-274 '59.
(MIRA 14:10)

1. Iz Abkhazskogo filiala Instituta kurortologii Ministerstva zdravookhraneniya Gruzinskoy SSR (direktor - zasluzhennyy deyatel' nauk prof. A.L.Grigoliya).
(STOMACH) (ESOPHAGUS--DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N.V., kand.med.nauk; BLANUTSA, S.G.

Remote results of treatment of hypertension patients at Sukhumi Health Resort. Sbor. trud. Med. nauch. ob-vo Abkh. 2:123-133 '59.
(MIRA 14:10)

(HYPERTENSION)
(SUKHUMI--HEALTH RESORTS, WATERING PLACES, ETC.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MQELADZE, N.V., kand.med.nauk; BLANUTSA, S.G.

Treating hypertension patients with baths in mineral water from Sukhumi Spring No.1. Sbor. trud. Med.nauch. ob-vo Abkh. 2:113-121 '59. (MIRA 14:10)

(HYPERTENSION) (SUKHUMI--MINERAL WATERS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N. V.

Mgeladze, N. V.

"Changes in the Oxidation-Reduction Processes in Patients with Diseases of the Cardiovascular System under the Influence of Climatic-Balneological Factors at the Avadkhar Spa." Tbilisi State Medical Inst. Sukhumi, 1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', NO. 27, 2 July 1955

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, N. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

| Name | Title of Work | Nominated by |
|---|---|---|
| Mgeladze, N. V. | "Ritsa-Avadkhara" (Statistics of Illness?" | Ministry of Health Georgian SSR |

SO: W-30604, 7 July 1954

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

CATEGORY : Forestry. General Problems.

ABS. JOUR : Ref Zhur-Biologiya, No. 5, 1959, No.20108

AUTHOR : Matikashvili, V.; Mgeladze, M.
INST. : Institute of Forests, Acad.of Sciences Geor-*
TITLE : Forest Experiment Station at Akhaldaba and Its Work (Georgia)

ORIG. PUB.: Tr. In-ta lesa AN GruzSSR, 1957, 7, 325-327

ABSTRACT : No abstract

*gian SSR

CARD: 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, K. G.

Dept. of State

719

Dissertation for degree of

Candidate Geographical Sciences

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, K.G.

Ancient glaciation in the central part of mountainous Abkhasia.
Izv.Vses.geog.ob-va 92 no.5:433-436 S-O '60. (MIRA 13:9)
(Abkhazia--Glacial epoch)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, K. G.

MGELADZE, K. G. --"On the Physicogeographic Characteristics of the Central Portion of Mountainous Abkhazia." *(Dissertations for Degrees in Science and Engineering Defended at [illegible] Higher Educational Institutions) Tbilisi State imeni I. V. Stalin, Tbilisi, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Geographical Sciences

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGELADZE, G.D.; SHALAMBERIDZE, V., red.

[Balneological health resort] Bal'neologicheskii kurort. Tbilisi, Gosizdat Gruzinskoi SSR, 1956. 37 p. (MIRA 12:6)
(TIFLIS--DESCRIPTION) (MINERAL WATER, SULFUROUS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O.I.

Drive velocity of dislocations during annealing. Soob. AN Gruz. SSR 38 no.1:31-36 Ap '65. (MIRA 18:12)

1. Tbilisskiy gosudarstvennyy universitet. Submitted July 4, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

L 22551-65

ACCESSION NR: AP5010638

2

concluded that an annealing temperature of 700C for Ge is sufficient to scatter the existing atmospheres around the dislocations and to increase the number of free dislocations capable of accomplishing oscillations. Orig. art. has: 3 tables, 1 figure and 5 formulas.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tiflis state university)

SUBMITTED: 08 Dec63 ENCL: 00 SUB CODE: SS, GP

NO REF SOV: 006 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

L 22551-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(k)/EWP(b) Pf-4/Pl-4 IJP(c) JD

ACCESSION NR: AP5010038 S/0251/64/036/002/0287/0293

AUTHOR: Mgebryan, O. L.; Chkhaidze, Ya. I.

TITLE: Investigation of extrinsic atmospheres around dislocations by studying the damping of ultrasound

SOURCE: AN GruzSSR. Soobshcheniya, v. 36, no. 2, 1964, 287-293

TOPIC TAGS: ultrasonic damping, extrinsic atmosphere, germanium semiconductor, elasticity modulus, silicon semiconductor

ABSTRACT: This article investigates the extrinsic atmospheres around dislocations in Ge and Si semiconductor single crystals by measuring the damping constant. The electrical resistance and conductivity, dislocation density, damping constant, and modulus of elasticity were measured before and after copper electrodeposition and annealing in a vacuum. It is shown that the electrical resistance of the Si specimen decreases after the introduction of copper atoms. In addition, the dislocation density remains practically the same. However, the resistance of the Ge single crystal increased from 2.8 to 4.2 ohm · cm after annealing at 700 C in a vacuum for 3 hours. However, after the introduction of the admixture at 500 C, the resistance again decreased in the Ge specimen. It is

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGLBRYAN, O.I.

Dependence of the density of [illegible] temperature. Soob. AN Gruz. SSR 33 no.1:43-48 Jl '64. (MIRA 17:7)

1. Tbilisskiy gosudarstvennyy universitet. Predstavlena akademikom V.I. Mamasakhlisovym.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O.I.; CHELIDZE, Z.A.

Pulse method for measuring internal friction. Soob. AN Gruz. SSR 31 no. 3:565-568 S '63. (MIRA 17:7)

1. Tbilisskiy gosudarstvennyy universitet. Predstavleno chlenom-korrespondentom AN GruzSSR M.M.Mirianashvili.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



Studies of the progress ...

dislocations by sources during hardening is equal to the inverse macroscopic displacement deformation due to unblocking of metastable dislocations and their annihilation by flowing back into their sources. Dislocations appearing during hardening are completely braked in the lattice, being in a metastable state, i.e. the author denies the possibility of dynamic appearance of dislocations. The generation of dislocations during hardening is mostly due to the Frank-Rid [Abstracter's note: Transliterated.] sources, not to destruction of vacancy discs. Blocking of motion of the dislocations by internal stress fields is investigated, and the Mott-Nabarro theory is confirmed for cases of natural and artificial ageing. Kirkendall effect is studied by measuring small displacements by electric method, temperature dependence of activation energy of motion of the dislocations is investigated by microhardness measuring and the blocking of dislocations at the boundaries of grains are investigated by measuring the microhardness and by X-ray structure analysis of the surface layer. [Abstracter's note: Complete translation.]

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



39052
S/124/62/000/007/020/027
D234/D308

specimen was 0.5 cm the magnitude of $\Delta s$ was approximately $10^{-2}$ to $10^{-3}$ cm. From the experimental values of $\Delta s$ one can determine the density of dislocations Nd and its variation during annealing. The experimental determination of $\Delta s$ was made by an electric method developed by the author. The effect of thermal motion of the lattice atoms on metastable dislocations (blocked dislocation loops) is considered and the experimental study of the dependence of metal hardening on the density of metastable dislocations, determined by electric and X-ray structure methods, is described. The dislocation density can be determined from $Nd = 10^2(10\gamma/b^2)^{2/3}$ where $\gamma$ is the dislocation in cm/cm due to secondary plastic effect. Occurrence of metastable dislocation during hardening is investigated. It is established that there is no secondary plastic effect in low temperature hardening. Consequently, determined thermal stresses are required for the appearance of dislocation, and they occur only in hardening at temperatures exceeding the lower critical temperature. The secondary plastic effect is reversible, i.e. the macroscopic displacement deformation due to generation of



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

39052
S/124/62/000/007/020/027
D234/D308

AUTHOR: Mgebryan, O. I. OGANES IOSIFOVICH

TITLE: Studies of the progress of dislocations in metals

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 7, 1962, 26, abstract 7V166 (Yerevan, AN ArmSSR, 1961, 189 pages)

TEXT: The author gives a survey of the principles of the theory of dislocations in crystals and experimental methods in the study of dislocations. A new method of experimental study of dislocations in deformed metals is proposed. If two points A and B are marked on the opposite sides across the width of a narrow deformed metallic plate these points will be displaced by an amount $\Delta s$ after annealing. The author calls this the secondary plastic effect, as its primary cause is the restraint of motion of dislocation loops in the process of preliminary plastic deformation. The macroscopic deformation of displacement due to the motion of dislocation loops from their sources to the points where they become fixed is equal in magnitude to the secondary plastic effect. When the width of the

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

S/081/62/000/017/008/102
B166/B180

AUTHORS: Mgebryan, O. I., Dzhanelidze, R. B.

TITLE: Some questions concerning the crystallization of $MoO_3$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 33, abstract 17B199 (Tr. Tbilissk. un-ta, v. 86, 1960, 433-437 [summary in Eng.])

TEXT: Methods are discussed, for producing large $MoO_3$ single crystals with semiconductive properties. The most efficient method has been found to be sublimation in a quartz tube, for which the optimum sublimation conditions were: temperature 850°C, inclination of the quartz tube 5°, time 48 hrs. The dimensions of the resulting crystals lie in the following ranges: length 15 - 50 mm, width 1.6 - 6 mm, thickness 50 - 200 μ. [Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

The Blocking of Dislocations on the Grain Boundary SOV/163-59-2-37/48

dislocations rises by two orders of magnitude. There are 1 figure, 1 table, and 5 references, 4 of which are Soviet.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: May 24, 1958

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



shows the dependence of $\ln \frac{\Delta H_o}{\Delta H_h}$ on h for the metals investigated ($H_o$ = change in microhardness of the top layer, $H_h$ = = microhardness of the layer at a distance h from the surface). A table indicates the values for the ratio of dislocation densities $\frac{N_o}{N_m}$ ($N_o$ = dislocation density on the surface, $N_m$ = = dislocation density at a distance $h_m$ from the surface).

The following conclusions are made: At the passage of dislocations through block and grain boundaries, their density decreases. This decrease is marked by the coefficient $\partial$ which is equal to the logarithm of the ratio between deformation work and heat liberation. The experimental values for $\partial$ let it seem improbable that the dislocations directly penetrate beyond the boundaries of mosaic blocks or grains. The dislocations in the neighboring block originate by excitation of dislocation sources due to stress concentration. At a condensation of 30-80%, the density of the checked



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

18 (7)
AUTHOR: Mgebryan, O. I.

SOV/163-59-2-37/48

TITLE: The Blocking of Dislocations on the Grain Boundary (Blokirovka dislokatsiy na granitse zerna)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 2, pp 207-211 (USSR)

ABSTRACT: Various disturbances of the crystal lattice such as foreign atoms, inclusions, other dislocations, and also the grain boundary, resist to the motion of dislocations. The energy of this resistance rises with the approach of the dislocation to the obstacle. The present paper investigates the penetration of the grain boundaries by dislocations. The polycrystalline pure metals and the alloys Zn, Al, Cu, Fe, Al-Zn (10% Zn), α-brass and Fe-C (0.2% C), as well as zinc monocrystals, were investigated. The annealed metals were locally and plastically deformed by detaching a fine cutting on a turning lathe. The density of dislocations, and their change in the depth of the metal, were determined by measuring the microhardness. After each measurement of hardness, a thin layer was pickled, and the hardness of the uncovered layer was measured. A diagram

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

The Origin and Motion of Dislocations in Nickel and in the Ni-Cr Alloy

SOV/163-59-2-36/48

In the alloy, the lattice of which is much distorted by the presence of foreign atoms, this process is more intense than in pure nickel. There are 4 figures and 8 references, 5 of which are Soviet.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: April 3, 1958

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



phase transformations, etc). The present paper reports on the investigation of the secondary plastic effect in the hardening of nickel and a nickel-chromium alloy with 85.35 % Ni, 14.43 % Cr as well as a low content of Si, C and traces of Mn. The hardening was carried out at different temperatures (200-800°). Figures 2 and 3 show the dependence of the potential on the hardening temperature. These curves are characteristic for the origin of dislocations according to F. C. Frank and W. T. Read (Ref 3). A second series of experiments on the dependence of the potential on the annealing temperature (Fig 4) confirmed the results obtained by L. M. Clarebrough, M. E. Hargreavs and G. W. West (Refs 7,8) who found that the metastable dislocations in nickel disappear in the temperature interval between 450 and 650° so that the jump in the curve of density change and the elimination of latent energy, observed at 200-300° by the authors mentioned, is due to the disappearance of vacancies. In the nickel-chromium alloy, the dislocations disappear already between 200 and 450°. The elimination of the metastable dislocations therefore depends very much on the structure of the metal.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

18 (7)
AUTHOR: Mgebryan, O. I.

SOV/163-59-2-36/48

TITLE: The Origin and Motion of Dislocations in Nickel and in the Ni-Cr Alloy (Vozniknoveniye i dvizheniye dislokatsiy v nikele i v splave Ni-Cr)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 2, pp 202-206 (USSR)

ABSTRACT: The method suggested by the author is based on the following deliberations: At the appearance and disappearance of any dislocation, the lattice undergoes a thrust deformation. After cold working, the metal shows metastable (checked) dislocations. When a strip is cut out of the metal and two points are fixed, these points will shift with respect to each other at a change in the dislocations (e.g. by annealing) due to plastic deformation. This shifting can be determined by the amount of the potential differences which occur between the two points at the passage of current along the metal strip. Figure 1 shows the circuit diagram of the experimental plant. This phenomenon is termed by the author "secondary plastic effect". It is only caused by a change in the density of dislocations but not by other phenomena (diffusion processes,

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O.I.

Experimental method for determining the density of dislocations. (MIRA 11:7)
Soob. AN Gruz. SSR 20 no. 2:151-154 F '58.

1. Tbilisskiy gosudarstvennyy universitet im. Stalina. Predstavleno chlenom-korrespondentom AN GruzSSR V.I. Mamasakhlisovym.
(Metallography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MOTERYAN, O.I., Doc Phys-Math Sci--(diss.) "[illegible] studies on the motion and properties of dislocation in metals and alloys." Kiev, 1958. 11 pp (Acad of Sci UkSSR. Inst of Metallophysics), 150 copies (KL, 45-58, 110)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MOSKRYAN, O.

Dynamic properties of dislocations. Trudy Tbil. GU no.62:25-52 '57. (MIRA 11:7)

1.Tbilisskiy gosudarstvennyy universitet im. Stalina, kafedra eksperimental'noy fiziki.
(Dislocation in crystals) (Alloys)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O. I.

Determination of Penetration Depth of Plastic Deformation by Brinell Hardness Test
Tr. Tbilisk. un-ta. 52, 1954, pp 47-53

A formula expressing the penetration depth of cold-working is derived: $l_{max} = 0.29\sqrt[3]{(h_o - h_1)/h_1}$, where $l_{max}$ is the maximum depth of penetration, $h_o$ and $h_1$ the penetration depth of the ball in the hardness test of the initial and cold-worked specimen respectively. Experimental results carried out on Cu and brass confirmed the validity of the formula. (RZhFiz, No 5, 1955)

SO: Sum. No. 639, 2 Sep 55

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O.I.; ANDRONIKASHVILI, E.L., chlen-korrespondent.

Effect of the compactness of dislocation on the process of creep. Soob. AN Gruz.SSR 13 no.8:457-462 '52. (MLRA 6:5)

1. Tbilisskiy Gosudarstvennyy Universitet imeni Stalina (for Mgebryan).
2. Akademiya Nauk Gruzinskoy SSR (for Andronikashvili).

(Creep of metals)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRIAN, O. I., CHIGVINADZE, D. I., SALUKVADZE, TS. M.

Crystallography

Weakened surface layer of crystals. Soob. AN Gruz. SSR 12, no. 8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O. I.

Mgebryan, O. I. - "On the depth of penetration of plastic deformation in metals with cold working", Soobshch. Akad. nauk Gruz. SSR, 1948, Nos. 9-10, p. 547-53, - Bibliog: 6 items.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRYAN, O.I.

Dissertation for degree of

Candidate Physico-Mathematical Sciences

687

тавита бария и термодинамические свойства сегнето-электрических явлений. 1950. 96 с.
Защ. 1951, 30.6.

756. Кетлаадзе Давид Васильевич. Связь между нормальной вторичной фото-электронной эмиссией и эмиссией вызванной ионами. 1944, 64 с.
Защ. 1945, 6.5.

757. Керакосян Зенфира Арамовна. Исследование протонной и нейтронной компонент космического излучения на высоте 3200 метров над уровнем моря. 1957, 98 с.
Защ. 1957, 14.9.

758. Кервалидзе Ираклий Давидович. К вопросу зарядки поверхности диэлектриков. 1940, 33 с., с рис.
Защ. 1940, 23.6.

759. Кирия Владимир Сидорович. Об определении энергии взаимодействия двух частиц по рассеянию и об одном методе решения конечных уравнений. 1954, 66 с.
Защ. 1954, 23.11.

760. Кобяшвили Михаил Яковлевич. Электродезинтеграция ядер согласно оболочной модели. 1956, 68 с.
Защ. 1957, 21.5.

761. Ковалёвшилли Тевузрая Исаакиевич. Исследование резонансных ядер с участием некоторых легких ядер с учетом дейтонов и тритонов. 1957, 90, [2] с., 23 рис.
Защ. 1957, 21.9.

762. Мгебрян Оганез Иосифович. К теории сахарометрического метода измерения твердости. 76 с., 3 л. табл., 6 рис.
Защ. 1945, 5.7.

763. Мирианашвили Григорий Михайлович. Поглощение мягкой и жесткой компоненты Космических лучей в воде на высоте 3250 метров. 1943.
Защ. 1944, 19.4.

764. Мтварелидзе Георгий Абрамович. Изотопический сепарис и распространение изотопов некоторых легких элементов в природе. 1954, 75 [4] с.
Защ. 1955, 24.5.

765. Наскидашвили Илья Архилович. Исследование зависимости коэффициента самодиффузии цинка и степени анизотропии. 1957, 118 с.
Защ. 1957, 22.5.

766. Полиектов-Николадзе Николай Михайлович. О приближении приближенных Бора к дезинтеграционным явлениям. 1944, [1], 55 с.
Защ. 1944, 23.10.

767. Политов Николай Георгиевич. Центры окрашивания и фотопроводниковые свойства кристаллов хлористого калия. 1956. 269 с., 66 с. рис. (Инст. физики АН Груз. ССР).
Защ. 1956, 29.12.

768. Сакоразвили Юрий Андреевич. Зависимость диэлектрических потерь от характера электропроводности диэлектриков. 1949, 46 с.
Защ. 1944, 28.12.

769. Хуцишвили Гиви Ражденович. Переходные эффекты диффузии в воздухе и воду. 1946, 24 с.
Защ. 1946, 30.1.

770. Цинцадзе Русудан Валериановна. Некоторые фотоэлектрические свойства естественных монокристаллов серы. 1955, 69 с., с рис. (Гос. с. х. инст. Груз. ССР).
Защ. 1956, [ ] с.

771. Чхаидзе Владимир Валериянович. Стохастические методы в приложении к исследованию некоторого рассеяния и потерь. 1952, [1], 108 с., 1 л. рис. (Инст. физики и геофизики Акад. Наук Груз. ССР).
Защ. 1952, 27.4.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

T-13

USSR/Human and Animal Physiology (Normal and Pathological).
Effect of Physical Factors. Ionizing Radiation.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75288

Author : Antipenko, Ye.N., Mgebrov, K.M., Sinyakina, N.P.

Inst : -

Title : Influence of Extraordinary Stimulation of the Nervous System in Animals Which Transmit Radiation Sickness.

Orig Pub : Tr. Vses. konferentsii po med. radiol. Eksperim. med. radiol., M., Medgiz, 1957, 52-55.

Abstract : Dogs (10) which underwent acute radiation sickness as a result of exposure to $Co^{60}$ in a dose of 650 r were subjected to interference of food and defensive reflexes. After the latter interference (in 10 months after exposure) the number of leukocytes was decreased by 60-65%, the phagocytaric index - 3-5 times, the quantity of reticulocytes - sometimes up to 3 times. The content of erythrocytes and Hb did not change essentially. In the bone

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

K

USSR / Forestry. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82172

according to the local ecology, tables are given as well as some practical instructions on the regeneration of the principal species in pine forests of Mariyskaya ASSR. Tables are presented which characterize the rate of restoration of the cleared areas in various ecological situations according to the type of forest. -- V. V. Protopopov

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6



USSR / Forestry. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82172

mechanized logging season is noted. The degree, character, and extent of injury to the soil and the disturbance of the litter are determined not only by the season of work but also by the felling methods and the types of apparatus used in hauling the logs. Live cover-ings above the ground suffer the greatest change in the cleared pine-cowberry and whortleberry forests where gramineous plants appear most rapidly. In the lichenous pine groves the gramineous plants did not interfere with restoration even after a lapse of 7 - 8 years. In the pine-cowberry forests turfing began after 5 - 6 years and in the whortleberry after 2 - 3 years. The main source of sowing of the clear cuttings in Mariyskaya ASSR was left-over seedlings. Forest walls in front of the exploited areas are of little importance in seeding the clearings. Natural restoration is characterized



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

K

USSR / Forestry. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82172

Author : Mgebrov, G. G.
Inst : Tatar Forest Experimental Station
Title : Forest Renewal in Clear Cuttings of the Pine Groves of Mariyskaya SSSR

Orig Pub : Sb. tr. po lesn. kh-vu. Tatarsk. lesn. opytn. st., 1957, vyp 13, 49-122

Abstract : Irregular distribution of precipitation during the vegetation period, frequent spring and summer droughts, and high summer temperatures markedly hinder the restoration of pines on the clear cuttings of Mariyskaya SSSR. A classification is presented on the cleared areas in reference to local growing conditions (5 groups). The strong effect on restoration produced by the

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

COUNTRY : USSR
CATEGORY : Forestry. Forest Cultures.

ABS. JOUR. : RZhBiol., No. 14 1959, No. 63228

AUTHOR : Morokhin, D. I.; Mogilov, G. G.
INST. : Kazan University
TITLE : On the Problem of the Viability of Oak Embryos

ORIG. PUB. : Uch. zap. Kazansk. un-ta, 1956, 116, No. 14, 9-16

ABSTRACT : Under laboratory and field conditions (Tatarskaya ASSR), acorns of various qualitative conditions were transplanted: with radicles 1-2 mm in length (turning up), with developed stems and roots, having embryos only in the form of roots, and acorns with broken-off radicles and without stems. It is found that the viability of oak embryos is more directly dependent on external media conditions than on their qualitative condition. Under optimum conditions (laboratory), acorns with long roots and stems turned out to be most viable. Under field conditions with periodic strong desiccation of the soil, embryos with broken-off roots were the most viable. Sprouts appeared fastest of

Card: 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

NECHAYEV, G.K.; MGEBRISHVILI, T.V.

Device for the regulation and measurement of the strength of brandy alcohol. Trudy KIPP no.22:227-229 '61. (MIRA 16:4)
(Liquors--Gauging and testing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRISHVILI, Sh. G.

AKSENOVA, N.I., inzhener; MGEBRISHVILI, Sh.G., inzhener.

Tests of the FChN-2 fumigating machine. Sel'khozmashina no.7: 15-17 Jl '54. (MLRA 7:7)

1. GSKB po chayu (Fumigation) (Spraying and dusting equipment) (Tea--Diseases and pests)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRISHVILI, O.M.

Effectiveness of a combination of Dorogov's ASD F-3 antiseptic-stimulant preparation with ethereal oil in treatment of microbial eczema. Sbor. trud. Med. nauch. ob-vo Abkh. 2:225-227 '59.
(MIRA 14:10)

1. Iz Respublikanskogo kozhno-venerologicheskogo dispansera Ministerstva zdravookhraneniya Abkhazskoy ASSR (glavnyy vrach V.M.Matsaberidze, zav.kozhnym otdeleniyem O.M.Mgebrishvili).
(TISSUE EXTRACTS) (EGZEMA)
(ESSENCES AND ESSENTIAL OILS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGBRISHVILI, I.M., inzh.; POLOSIN, N.V., inzh.

Practices used in constructing the Ladzhanur Dam. Gidr. stroi. 30 no.10:12-17 O '60. (MIRA 13:10)
(Ladzhanur Hydroelectric Power Station--Dams)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6

MGEBRISHVILI, I. M.

METANELI, I.D., kandidat tekhnicheskikh nauk; KOMPANIONI, Zh.I., inzhener; MGEBRISHVILI, I.M., inzhener; MOMTSELIDZE, M.A., inzhener; NEMSADZE, M.I., inzhener; CHOGOVADZE, G.I., inzhener.

Standard prefabricated concrete plant with two S-158 concrete mixer. Elek. sta. 25 no.6:48-49 Je '54. (MLRA 7:7)
(Concrete) (Mixing machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800035-6